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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	32	((textual\$1 same data same display\$3) same (record\$3 same (output or (out adj put\$4) or result\$1))) same (((data adj base\$1) or db\$1 or database\$1) same mobile\$1 or remote\$1)) and (@rlad<="19990105" or @ad<="19990105")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:44
L2	1	1 and (communicat\$4 same remot\$4 same send\$4 same textual\$1 same indicat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:44
L3	18	1 and (communicat\$4 same remot\$4 same send\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:42
L4	18	1 and (communicat\$4 same remot\$4 same send\$4 same textual\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:43
L5	18	1 and (communicat\$4 same remot\$4 same send\$4 same textual\$1 same ((data adj base\$1) db\$1 database\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:43
L6	25	((textual\$1 same data same display\$3) same (record\$3 same (output or (out adj put\$4) or result\$1))) same (((data adj base\$1) or db\$1 or database\$1) same remote\$1)) and (@rlad<="19990105" or @ad<="19990105")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:44
L7	1	6 and (communicat\$4 same remot\$4 same send\$4 same textual\$1 same indicat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/22 18:44



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1 [Artificial intelligence](#)

Elaine Rich

January 1983 Book

Publisher: McGraw-Hill, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [review](#)

The goal of this book is to provide programmers and computer scientists with a readable introduction to artificial intelligence (A.I.). The book can be used either as a text for a course on A.I. or as a self-study guide. A.I. is all about.

The book was designed as the text for a one-semester, introductory graduate course in A.I. In addition to the basic material in the book ...

2 [Shape-based retrieval and analysis of 3D models](#)



Thomas Funkhouser, Michael Kazhdan

August 2004

ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press

Full text available: [pdf\(12.56 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical engineering. As the number of 3D models grows, there is an increasing need for computer algorithms to help people search through them. Unfortunately, traditional text-based search techniques are not always effective in this nature (e.g., find me objects that fit into this ...

3 [Research papers: data cleaning and mapping: A cost-based model and effective heuristic](#)



Philip Bohannon, Wenfei Fan, Michael Flaster, Rajeev Rastogi

June 2005

Proceedings of the 2005 ACM SIGMOD international conference on Management of Data

Publisher: ACM Press

Full text available: [pdf\(565.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Data integrated from multiple sources may contain inconsistencies that violate integrity constraints. Changes that, when applied, will cause the constraints to be satisfied. While in most previous work, we follow recent work to define a database repair as a set of value modifications, this work allows for the application of ...

4 [Cryptography and data security](#)

Dorothy Elizabeth Robling Denning

January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(19.47 MB)

Additional Information: [full citation](#), [abstract](#), [referen](#)

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prol have come to rely on these systems to process and store data, we have also come to wonder a

Data security is the science and study of methods of protecting data in computer and communi

5 A software engineering perspective on algorithmics



Karsten Weihe

March 2001

ACM Computing Surveys (CSUR), Volume 33 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.62 MB)

Additional Information: [full citation](#), [abstract](#), [referen](#)

An algorithm component is an implementation of an algorithm which is not intended to be a sta large software package or even within several distinct software packages. Therefore, the design engineering aspects. A key design goal is adaptability. This goal is important for maintenance tl new, unforeseen contex ...

Keywords: algorithm engineering

6 Query evaluation techniques for large databases



Goetz Graefe

June 1993

ACM Computing Surveys (CSUR), Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(9.37 MB)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Database management systems will continue to manage large data volumes. Thus, efficient alg sequences will be required to provide acceptable performance. The advent of object-oriented ar On the contrary, modern data models exacerbate the problem: In order to manipulate large set systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible datab. operator model of parallelization, parallel algorithms, relational database systems, set-matching


7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997

Proceedings of the 1997 conference of the Centre for Advanced Studies

Publisher: IBM Press

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on pr understanding of the execution of the application. The visualization tool we use is Poet, an ever these diagrams are often very complex and do not provide the user with the desired overview c repeated occurrences of non-trivial commun ...

8 High dynamic range imaging



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004

ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04

Publisher: ACM Press


Full text available:  pdf(20.22 MB)


Additional Information: [full citation](#), [abstract](#)

Current display devices can display only a limited range of contrast and colors, which is one of the reasons why current display techniques use no more than eight bits per color channel. This course outlines recent techniques to remove this restriction, thereby enabling images to represent the color gamut and subspace imposed by current monitor ...

9 [Proceedings of the SIGNUM conference on the programming environment for developers](#)

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

 **Publisher:** ACM Press

Full text available:  pdf(5.02 MB)

Additional Information: [full citation](#)

10 [The relational model for database management: version 2](#)

E. F. Codd

January 1990 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available:  pdf(28.61 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solid logic and the theory of relations. This book, however, does not dwell on the theoretical foundations that I now perceive as important for database users, and therefore for DBMS vendors. My perception is that I now perceive as important for database users, and therefore for DBMS vendors. My perception is that I now perceive as important for database users, and therefore for DBMS vendors.

11 [Learning Horn Expressions with LOGAN-H](#)

Marta Arias, Roni Kharden, Jérôme Maloberti

May 2007 **The Journal of Machine Learning Research**, Volume 8


Publisher: MIT Press

Full text available:  pdf(546.96 KB)

Additional Information: [full citation](#), [abstract](#)

The paper introduces LOGAN-H — a system for learning first-order function-free Horn expressions using an algorithm that learns by asking questions and that was proved correct in previous work. The current version is a practical system, and introduces a new algorithm based on it that avoids interaction and learns these algorithms and adds several facilities and ...

12 [Geometric modeling based on triangle meshes: Geometric modeling based on triangle meshes](#)

 Mario Botsch, Mark Pauly, Christian Ross, Stephan Bischoff, Leif Kobbelt


July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

Full text available:  pdf(24.22 MB)

Additional Information: [full citation](#), [references](#)


13 [Parallel direct solution of large sparse systems in finite element computations](#)

 H. X. Lin, H. J. Sips

August 1993

Proceedings of the 7th international conference on Supercomputing ICS

Publisher: ACM Press

Full text available:  pdf(1.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

An integrated approach for the parallel solution of large sparse systems arisen in finite element phase preprocessor and a macro dataflow execution scheme. The three phases of the preprocessor are: (1) automatic domain decomposer; (2) Building the distributed data structure and (partial) scheduling; (3) Assigning processes (tasks) onto process ...

14 Crowd and group animation

 Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**


Publisher: ACM Press

Full text available:  [pdf\(20.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

A continuous challenge for special effects in movies is the production of realistic virtual crowds, state-of-the-art techniques and methods. The course will explain in details the different approach techniques using attraction and repulsion forces, copy and pasting techniques, agent-based methods including the MASSIVE software ...

15 A comparative study of language support for generic programming

 Ronald Garcia, Jaakko Jarvi, Andrew Lumsdaine, Jeremy G. Siek, Jeremiah Willcock
October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on languages, and applications OOPSLA '03**, Volume 38 Issue 11

Publisher: ACM Press


Full text available:  [pdf\(237.38 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


Many modern programming languages support basic generic programming, sufficient to implement moved beyond this basic support to a broader, more powerful interpretation of generic programming. This paper reports on a comprehensive comparison of generics in six programming languages: C++ (with its generics extension), and Generic C. By implementing ...

Keywords: C#, C++, Eiffel, Haskell, Java, generic programming, generics, polymorphism, standard

16 Compiler transformations for high-performance computing

 David F. Bacon, Susan L. Graham, Oliver J. Sharp
December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

In the last three decades a large number of compiler transformations for optimizing programs for multiprocessors reduce the number of instructions executed by the program using transformation techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors are transformations that rely on tracking the properties of ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism

17 DB-1 (databases): data integration: Organizing structured web sources by query schemas

 Bin He, Tao Tao, Kevin Chen-Chuan Chang
November 2004 **Proceedings of the thirteenth ACM international conference on Information and Management**

Publisher: ACM Press

Full text available:  [pdf\(323.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

In the recent years, the Web has been rapidly "deepened" with the prevalence of databases online by providing structured query interfaces and results. Organizing such structured sources into a integration of heterogeneous Web sources. We observe that, for structured Web sources, query discriminative representative ...

Keywords: data integration, deep Web, hierarchical agglomerative clustering

18 Reflections on building two Go programs

Bruce Wilcox

October 1985 **ACM SIGART Bulletin**, Issue 94



Publisher: ACM Press

Full text available: pdf(1.42 MB)

Additional Information: [full citation](#), [abstract](#), [referen](#)

From 1972 to 1979 I co-designed and built what became the world's strongest computer Go pr person-years, 8K lines of LISP, 3 megabytes of memory, and an IBM mainframe. Recently I cor (tm). It has taken 1 person-year, 13.5K lines of C, 146 kilobytes of memory, and an IBM-PC. Ti article discusses both how I went about reengineering the ...

19 Specification and dialogue control of visual interaction through visual rewriting systems



P. Bottoni, M. F. Costabile, P. Mussio

November 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, v

Publisher: ACM Press

Full text available: pdf(886.71 KB)

Additional Information: [full citation](#), [abstract](#), [referen](#)

Computers are increasingly being seen not only as computing tools but more so as communicat interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged bet computer screen, as usual in current popular user interfaces. We formalize interactive sessions visual sentences, i.e., as a visual languag ...

Keywords: control automaton, dialogue control, visual languages

20 CODASYL Data-Base Management Systems



Robert W. Taylor, Randall L. Frank

March 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(2.82 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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